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Attorney Docket No.: 00287S-004450US PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Philip S. Green, *et al.*

Application No.: 10/629,345

Filed: July 28, 2003

For: SURGICAL MANIPULATOR FOR
A TELEROBOTIC SYSTEM

Examiner: Priddy, Michael B.

Art Unit: 3732

**INFORMATION DISCLOSURE
STATEMENT
UNDER 37 CFR §1.97 and §1.98**

Mail Stop: Amendment
Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached forms PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner.

In accordance with 37 CFR §1.98(d), copies of the references can be found in the related parent Application Nos. 09/104,935 and 10/124,573, filed 06/25/98 and 04/16/2002, now Patent Nos. 6,413,264 B1 and 6,620,174 B2, issued 07/02/2002 and 09/16/2003 (Attorney Docket Nos. 00287S-004430US and 00287S-004440US), respectively.

It is requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

02/02/2005 WASFAW1 00000048 201430 10629345

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As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

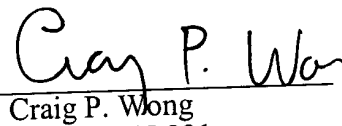
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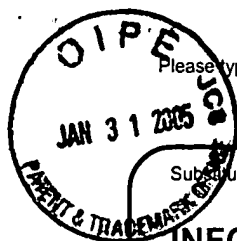
Respectfully submitted,

Date: January 28, 2005

By:


Craig P. Wong
Reg. No. 45,231

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, CA 94111-3834
Tel: 206-467-9600
Fax: 415-576-0300
CPW:mmm



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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 7

Complete if Known

Application Number	10/629,345
Filing Date	July 28, 2003
First Named Inventor	PHILIP S. GREEN.
Group Art Unit	3732
Examiner Name	Priddy, Michael B.
Attorney Docket Number	00287S-004450US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	1,418,184		Trunic	05/1922	
	AB	2,815,697		Saunders-Singer	12/1957	
	AC	2,901,258		Brandafi	08/1959	
	AD	3,145,333		Pardini et al.	08/1964	
	AE	3,255,893		Hainer et al.	06/1966	
	AF	3,337,071		Clark	08/1967	
	AG	3,463,329		Gartner	08/1969	
	AH	3,630,389		Schmidt et al.	12/1971	
	AI	3,703,968		Uhrich et al.	11/1972	
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	AL	3,921,445		Hill et al.	11/1975	
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	AN	3,934,201		Majefski	01/1976	
	AO	4,113,115		Yoshio	09/1978	
	AP	4,177,002		Motoda et al.	12/1979	
	AQ	4,221,953		Kiilunen	09/1980	
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	AS	4,235,437		Ruis et al.	11/1980	
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	AW	4,419,041		Rose	12/1983	
	AX	4,437,635		Pham	03/1984	
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	AZ	4,510,574		Guittet et al.	04/1985	
	BA	4,542,794		Bjor	09/1985	
	BB	4,562,463		Lipton	12/1985	
	BC	4,563,567		Geffroy et al.	01/1986	
	BD	4,582,067		Silverstein et al.	04/1986	
	BE	4,583,117		Lipton et al.	04/1986	
	BF	4,601,000		Montabery	07/1986	
	BG	4,636,138		Gorman	01/1987	

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Application Number		10/629,345				
Filing Date		July 28, 2003				
First Named Inventor		PHILIP S. GREEN				
Group Art Unit		3732				
Examiner Name		Priddy, Michael B.				
Attorney Docket Number		00287S-004450US				
Sheet	2	of	7			

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	BH	4,651,201		Schoolman	03/1987	
	BI	4,672,963		Barken	06/1987	
	BJ	4,718,815		Lindgren	01/1988	
	BK	4,744,343		Hasson	05/1988	
	BL	4,750,475		Yoshihashi	06/1988	
	BM	4,751,925		Tontarra	06/1988	
	BN	4,762,455		Coughlan et al.	08/1988	
	BO	4,808,898		Pearson	02/1989	
	BP	4,837,734		Ichikawa et al.	06/1989	
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	BS	4,855,822		Narendra et al.	08/1989	
	BT	4,862,873		Yajima et al.	09/1989	
	BU	4,873,572		Miyazaki et al.	10/1989	
	BV	4,899,730		Stennert et al.	02/1990	
	BW	4,922,338		Arpino	05/1990	
	BX	4,936,862		Walker et al.	06/1990	
	BY	4,941,106		Krieger	07/1990	
	BZ	4,942,539		McGee et al.	07/1990	
	CA	4,943,296		Funakubo et al.	07/1990	
	CB	4,945,914		Allen	08/1990	
	CC	4,947,702		Kato	08/1990	
	CD	4,991,579		Allen	02/1991	
	CE	5,002,418		McCown et al.	03/1991	
	CF	5,020,933		Salvestro et al.	06/1991	
	CG	5,037,268		Warner et al.	08/1991	
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	CI	5,060,532		Barker	10/1991	
	CJ	5,062,761		Glechet	11/1991	
	CK	5,078,140		Kwoh	01/1992	
	CL	5,086,401		Glassman et al.	02/1992	
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	CN	5,099,846		Hardy	03/1992	
	CO	5,125,888		Howard	06/1992	

Examiner Signature		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **3** of **7**

Complete if Known

Application Number	10/629,345
Filing Date	July 28, 2003
First Named Inventor	PHILIP S. GREEN
Group Art Unit	3732
Examiner Name	Priddy, Michael B.
Attorney Docket Number	00287S-004450US

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
	CP	5,129,911		Siczek et al.	07/1992	
	CQ	5,141,519		Smith et al.	08/1992	
	CR	5,142,930		Allen et al.	09/1992	
	CS	5,154,723		Kubota et al.	10/1992	
	CT	5,184,601		Putman	02/1993	
	CU	5,216,596		Weinstein	06/1993	
	CV	5,219,351		Teubner et al.	06/1993	
	CW	5,222,499		Allen et al.	06/1993	
	CX	5,235,510		Yamada et al.	08/1993	
	CY	5,236,432		Matsen/III et al.	08/1993	
	CZ	5,251,127		Raab	10/1993	
	DA	5,253,706		Reid	10/1993	
	DB	5,257,998		Ota et al.	11/1993	
	DC	5,260,319		Effland et al.	11/1993	
	DD	5,271,384		McEwen et al.	12/1993	
	DE	5,273,039		Fujiwara et al.	12/1993	
	DF	5,279,309		Taylor et al.	01/1994	
	DG	5,280,427		Magnusson et al.	01/1994	
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	DJ	5,299,288		Glassman et al.	03/1994	
	DK	5,305,203		Raab	04/1994	
	DL	5,320,101		Faupel et al.	06/1994	
	DM	5,321,353		Furness	06/1994	
	DN	5,325,866		Krzyzanowski	07/1994	
	DO	5,339,799		Kami et al.	08/1994	
	DP	5,343,385		Joskowicz et al.	08/1994	
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	DV	5,398,685		Wilk et al.	03/1995	
	DW	5,402,801		Taylor	04/1995	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **4** of **7**

Complete if Known

Application Number	10/629,345
Filing Date	July 28, 2003
First Named Inventor	PHILIP S. GREEN
Group Art Unit	3732
Examiner Name	Priddy, Michael B.
Attorney Docket Number	00287S-004450US

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		Number	Kind Code ² (if known)			
	DX	5,408,409		Glassman et al.	04/1995	
	DY	5,417,210		Funda et al.	05/1995	
	DZ	5,425,528		Rains et al.	06/1995	
	EA	5,441,505		Nakamura	08/1995	
	EB	5,445,166		Taylor	08/1995	
	EC	5,474,566		Alesi et al.	12/1995	
	ED	5,480,409		Riza	01/1996	
	EE	5,531,742		Barken	07/1996	
	EF	5,572,999		Funda et al.	11/1996	
	EG	5,630,431		Taylor	05/1997	
	EH	5,636,138		Gilbert et al.	06/1997	
	EI	5,695,500		Taylor et al.	12/1997	
	EJ	5,762,458		Jensen et al.	06/1998	
	EK	5,810,880		Jensen	09/1998	
	EL	5,814,038		Wang et al.	09/1998	
	EM	5,855,583		Wang et al.	01/1999	
	EN	5,871,487		Warner	02/1999	
	EO	5,931,832		Jensen	08/1999	
	EP	5,976,156		Taylor et al.	11/1999	
	EQ	6,102,850		Wang et al.	08/2000	
	ER	6,106,511		Jensen	08/2000	
	ES	6,346,072		Cooper	02/2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	ET	CH	482 439			01/1970		
	EU	CH	1 395 478			10/1986		
	EV	DE	2 819 976			11/1979		

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				Filing Date	July 28, 2003
				First Named Inventor	PHILIP S. GREEN
				Group Art Unit	3732
				Examiner Name	Priddy, Michael B.
Sheet	5	of	7	Attorney Docket Number	00287S-004450US

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	EW	DE	3 808 121			03/1988		
	EX	DE	3 806 190			09/1988		
	EY	DE	4 213 426			10/1992		
	EZ	EP	0 239 409			09/1987		
	FA	EP	0 291 292			11/1988		
	FB	EP	0 595 291			05/1994		
	FC	FR	2,460,762			01/1981		
	FD	FR	2,593,106			07/1987		
	FE	FR	2,614,230			04/1987		
	FF	GB	2 040 134			08/1980		
	FG	GB	2 119 732			10/1983		
	FH	PCT	WO 92/16141			10/1992		

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/629,345
				Filing Date	July 28, 2003
				First Named Inventor	PHILIP S. GREET
				Group Art Unit	3732
				Examiner Name	Priddy, Michael B.
				Attorney Docket Number	00287S-004450US
Sheet	6	of	7		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	FI	Alexander, Arthur D., III, "Impacts of Telemation on Modern Society," NASA, Ames Research Center, Advanced Concepts and Missions Div., Moffett Field, California, in Symposium on Theory and Practise of Robots and Manipulators, 1st Udine, Italy, International Centre for Mechanical Sciences, Sep. 5-8, 1973, Preprints, (A74-16130 04-05), pp. 122-136.		
	FJ	Asada, Haruhiko et al., "Development of a Direct-Drive Arm Using High Torque Brushless Motors," pp. 583-599.		
	FK	Bejczy, A. K. et al., "Controlling Remote Manipulators Through Kinesthetic Coupling," 1983, Computers in Mechanical Engineering, pp. 48-60.		
	FL	Charles, S., M.D. et al., "Design Of A Surgeon-Machine Interface For Teleoperated Microsurgery," IEEE Engineering In Medicine & Biology Society 11th Annual International Conference CH2770-6/89/0000-0883, pp. 0883-0884 (1989).		
	FM	Dolan, J. et al., "A Robot In An Operating Room: A Bull In A China Shop?" IEEE/9th Annual Conference of the Engineering in Medicine and Biology Society CH2513-0/87/0000-1096, pp. 1096-1097 (1987).		
	FN	Fisher et al., "Virtual Interface Environment," Oct. 1986, Proceedings IEEE/AIAA 7th Digital Avionics Systems Conference, Fort Worth, Texas, pp. 346-350.		
	FO	Geurrouad, Aicha eta l., "SMOS: Stereotaxical Microtelem manipulator for Ocular Surgery," IEEE Engineering in Medicine and Biology Soc., 11th Ann. Int'l. Conf., 0879, CH2770-6/89/0879.		
	FP	Held, Richard et al., "Telepresence, Time Delay and Adaptation," in NASA, Ames Research Center, Spatial Displays and Spatial Instruments Proceedings of a Conference Sponsored by Nasa Ames Research Center and The School of Optometry, University of California, Jul. 1989, pp. 28-1 through 28-16.		
	FQ	Jau, B. M., "Anthropomorphic Remoter Manipulator", Apr. 1991, NASA Tech Briefs, NASA's Jet Propulsion Laboratory, Pasadena, California, p. 92.		
	FR	Kazerooni, H., "Design and Analysis of the Statically Balanced Direct-Drive Robot Manipulator," Robotics & Computer Integrated Manuf., vol. 5, No. 4, pp. 287-293, 1989.		
	FS	Kilmer, R.D. et al., "Watchdog Safety Computer Design and Implementation," National Bureau of Standards, Robotics Conference, Jun., 1984, pp. 101-117.		
	FT	Kim et al., "A Helmet Mounted Display for Telerobotics," 1988, 33 IEEE Computer Society International Conference, California, pp. 543-547.		
	FU	Matsushima, K., "Servo Micro Manipulator Tiny Micro Mark-1," 1982, 4th Symposium on Theory and Practise of Robots and Manipulators, pp. 193-201.		

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				Application Number	10/629,345
				Filing Date	July 28, 2003
				First Named Inventor	PHILIP S. GREET
				Group Art Unit	3732
				Examiner Name	Priddy, Michael B.
				Attorney Docket Number	00287S-004450US
Sheet	7	of	7		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	FV	Ng, W.S. et al., "Robotic Surgery, A First-Hand Experience in Transurethral Resection of the Prostate," IEEE Engineering in Medicine and Biology, Mar. 1993, pp. 120-125.	
	FW	Paul, Howard A. et al., "Development of a Surgical Robot for Cementless Total Hip Anthroplasty," Clinical Orthopaedics and Related Research, Apr. 21, 1992, pp. 57-66.	
	FX	Richter, R., "Telesugery May Bridge Future Gaps," 1988, Time Tribune, Sunday, Jan. 24, pp. A-1 and A-16.	
	FY	Spain, E. H., "Stereo Advantage for a Peg-In-Hole Task Using Force-Feedback Manipulator," 1990, Stereoscopic Displays and Applications, pp. 244-254.	
	FZ	Tachi, et al., "Tele-Existence Master Slave System for Remote Manipulation," 1990, Proceedings of the 29th Conference on Decision and Control, vol. 1 of 6, pp. 85-90.	
	GA	Taubes, Gary, "Surgery in Cyberspace," Discover, Dec., 1994, pp. 85-92.	
	GB	Taylor, Russell H. et al., "A Telerobotic Assistant for Laparoscopic Surgery," IEEE Engineering in Medicine and Biology, May/Jun. 1995, pp. 279-288.	
	GC	Trevelyan, James P. et al., "Motion Control for a Sheep Shearing Robot," pp. 175-190.	
	GD	Blue Cross Magazine Perspective, "Another Pair of Hands for Surgeon?," First Quarter 1972, The Blue Cross Magazine Perspective, p. 27.	
	GE	Computer Motion, Inc. "AESOP Automated Endoscopic System for Optimal Positioning," advertisement.	
	GF	PDE Modular Automation Bulletin, Mar. 7, 1990.	

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Examiner Signature	Date Considered
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